

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of)	
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Joe W. GRAY et al)	
)	
Application No.: 08/487,974)	Group Art Unit: 1807
)	
Filed: June 7, 1995)	Examiner: Unassigned
)	
For: CHROMOSOME-SPECIFIC)	
STAINING TO DETECT)	
GENETIC REARRANGEMENTS)	

**INFORMATION DISCLOSURE STATEMENT
TRANSMITTAL LETTER**

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

Enclosed is an Information Disclosure Statement and accompanying form PTO-1449 for the above-identified patent application.

- ☒ [x] No additional fee for submission of an IDS is required.
- ☐ [] The fee of \$210.00 as set forth in 37 C.F.R. § 1.17(p) is also enclosed.
- ☐ [] A certification under 37 C.F.R. § 1.97(e) is also enclosed.
- ☐ [] A certification under 37 C.F.R. § 1.97(e), a petition requesting consideration of the information disclosure statement, and the petition fee of \$130.00 as set forth in 37 C.F.R. § 1.17(i) are also enclosed.
- ☐ [] Charge \$_____ to Deposit Account No. 02-4800 for the fee due.
- ☐ [] A check in the amount of \$_____ is enclosed for the fee due.

DOCKETED
*** 9/14/95
filed

Information Disclosure Statement Transmittal Letter

Application Serial No. 08/487,974

Attorney's Docket No. 028723-016


Page 2

The Commissioner is hereby authorized to charge any appropriate fees under 37 C.F.R.
§§ 1.16, 1.17 and 1.21 that may be required by this paper, and to credit any overpayment, to
Deposit Account No. 02-4800. This paper is submitted in triplicate.

Respectfully submitted,

BURNS, DOANE, SWECKER & MATHIS

By:


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Date: September 14, 1995

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Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

In accordance with the duty of disclosure as set forth in 37 C.F.R. §1.56, Applicants hereby submit the following information in conformance with 37 C.F.R. §§ 1.97 and 1.98. Pursuant to 37 C.F.R. § 1.98, a copy of each of the documents cited is enclosed.

Angerer et al, "*In Situ* Hybridization to Cellular RNAs," Genetic Engineering: Principles and Methods, Setlow and Hollaender, Eds., Vol. 7, pp. 43-65, Plenum Press, New York (1985)

Bayer et al, "The Use of the Avidin-Biotin Complex as a Tool in Molecular Biology," Methods of Biochemical Analysis, Vol. 26, pp. 1-45 (1980)

Brigati et al, "Detection of Viral Genomes in Cultured Cells and Paraffin-Embedded Tissue Sections Using Biotin-Labeled Hybridization Probes," Virology, Vol. 126, pp. 32-50 (1983)

Broker et al, "Electron Microscopic Visualization of tRNA Genes with Ferritin-Avidin: Biotin Labels," Nucleic Acids Research, Vol. 5, No. 2, pp. 363-384 (1978)

Connolly et al, "Chemical Synthesis of Oligonucleotides Containing A Free Sulphydryl Group and Subsequent Attachment of Thiol Specific Probes," Nucleic Acids Research, Vol. 13, No. 12, pp. 4485-4502 (1985)

Fusco et al, "Construction of Fifteen Human Chromosome-Specific DNA Libraries from Flow-Purified Chromosomes," Cytogenetic Cell Genetics, Vol. 43, pp. 79-86 (1986)

Gall et al, "Nucleic Acid Hybridization in Biological Preparations," Methods in Enzymology, Vol. 21, pp. 470-480 (1981)

Henderson, "Cytological Hybridization to Mammalian Chromosomes," International Review of Cytology, Vol. 76, pp. 1-46 (1982)

Kuhlmann, Immuno Enzyme Techniques in Cytochemistry, Verlag Chemie, Weinheim, Basel (1984) (table of contents only)

Lawn et al, "The Isolation and Characterization of Linked δ - and β -Globin Genes from a Cloned Library of Human DNA," Cell, Vol. 15, pp. 1157-1174 (1978)

Maniatis et al, "In Vitro Packaging of Bacteriophage λ DNA," Molecular Cloning: A Laboratory Manual, Cold Spring Harbor Laboratory, pp. 256-307 (1982)

Marmur, "A Procedure for the Isolation of Deoxyribonucleic Acid from Microorganisms," J. Mol. Biol., Vol. 3, pp. 208-218 (1961)

Richardson et al, "Biotin and Fluorescent Labeling of RNA Using T4 RNA Ligase," Nucleic Acids Research, Vol. 11, No. 18, pp. 6167-6184 (1983)

Smith et al, "The Synthesis of Oligonucleotides Containing an Aliphatic Amino Group at the 5' Terminus: Synthesis of Fluorescent DNA Primers For Use In DNA Sequence Analysis," Nucleic Acids Research, Vol. 13, No. 7, pp. 2399-2412 (1985)

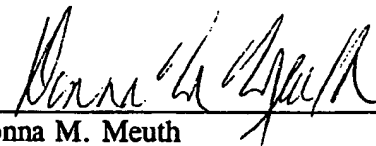
Tchen et al, "Chemically Modified Nucleic Acids as Immunodetectable Probes in Hybridization Experiments," PNAS, Vol. 81, pp. 3466-3470 (1984)

The documents are being submitted within 3 months of the filing or entry of the national stage of this application or before the first Office Action on the merits, whichever is later, therefore no fee or certification is required under 37 C.F.R. § 1.97(b).

To assist the Examiner, the documents are listed on the attached form PTO-1449.
It is respectfully requested that an Examiner initialled copy of this form be returned to the undersigned.

Respectfully submitted,

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INFORMATION DISCLOSURE CITATION PTO-1449				ATTORNEY'S DKT NO. 028723-016		APPLICATION NO. 08/487,974	
				APPLICANT Joe W. GRAY et al			
				FILING DATE 6/7/95		GROUP 1807	
U.S. PATENT DOCUMENTS							
EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE	
FOREIGN PATENT DOCUMENTS							
EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translation Yes No	
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
Angerer et al, " <u>In Situ Hybridization to Cellular RNAs</u> ," <u>Genetic Engineering: Principles and Methods</u> , Setlow and Hollaender, Eds., Vol. 7, pp. 43-65, Plenum Press, New York (1985)							
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Fuscoe et al, "Construction of Fifteen Human Chromosome-Specific DNA Libraries from Flow-Purified Chromosomes," <u>Cytogenetic Cell Genetics</u> , Vol. 43, pp. 79-86 (1986)							
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Kuhlmann, <u>Immuno Enzyme Techniques in Cytochemistry</u> , Verlag Chemie, Weinheim, Basel (1984) (table of contents only)							
Lawn et al, "The Isolation and Characterization of Linked δ - and β -Globin Genes from a Cloned Library of Human DNA," <u>Cell</u> , Vol. 15, pp. 1157-1174 (1978)							
Maniatis et al, "In Vitro Packaging of Bacteriophage λ DNA," <u>Molecular Cloning: A Laboratory Manual</u> , Cold Spring Harbor Laboratory, pp. 256-307 (1982)							
Marmur, "A Procedure for the Isolation of Deoxyribonucleic Acid from Micro-organisms," <u>J. Mol. Biol.</u> , Vol. 3, pp. 208-218 (1961)							
Richardson et al, "Biotin and Fluorescent Labeling of RNA Using T4 RNA Ligase," <u>Nucleic Acids Research</u> , Vol. 11, No. 18, pp. 6167-6184 (1983)							
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Tchen et al, "Chemically Modified Nucleic Acids as Immunodetectable Probes in Hybridization Experiments," <u>PNAS</u> , Vol. 81, pp. 3466-3470 (1984)							
EXAMINER				DATE CONSIDERED			

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.